

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|------------------|
| S1 | 11 | ((("4966646") or ("5865417") or ("6062256") or ("6123107") or ("6129331") or ("6149123") or ("6160243") or ("6182603") or ("6210754") or ("6237394") or ("6290491"))).PN. or (09/651037). CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/03/24 16:14 |
| S2 | 14 | ((("6080446") or ("6596085") or ("5380396") or ("6705345") or ("6432831") or ("6358323") or ("6302964") or ("6287980") or ("6245192") or ("6086677") or ("6032923") or ("5953634") or ("5500256") or ("5091207"))).PN. | USPAT | OR | OFF | 2005/03/24 17:38 |
| S3 | 6 | ((("5082517") or ("6176930") or ("6548112") or ("5911834") or ("5876503") or ("4934401"))).PN. | USPAT | OR | OFF | 2005/03/24 19:19 |
| S4 | 1 | ("5380396").PN. | USPAT | OR | OFF | 2005/03/24 19:32 |
| S5 | 5205 | ((118/715) or (156/345.33,345.34)).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/24 19:34 |
| S6 | 150 | S5 and ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate)) same valve) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 16:29 |
| S7 | 320 | ("118"/\$.ccls.) and ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate)) same valve) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/03/24 21:23 |
| S8 | 175 | S7 not S6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/03/24 21:08 |
| S9 | 2568 | ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate)) with valve) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 17:06 |

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| S10 | 1350 | ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate)) with valve) same control\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/03/24 21:26 |
| S11 | 184 | S10 and (wafer or substrate or (object adj2 treated)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/03/24 21:27 |
| S12 | 122 | S11 not (S6 or S7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/03/24 21:38 |
| S13 | 573 | (lund-j\$).xa. or (lund-j\$).xp. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/03/24 21:39 |
| S14 | 16 | ("4313284" "4860229" "4874463" "4931962" "5094536" "5191218" "5389579" "5564682" "5618759" "5692873" "5707051" "5899445" "6173648").PN. OR ("6446948").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/03/24 22:00 |
| S15 | 32 | ("20020129768" "20020155632" "20030033980" "20030045098" "20040144310" "3110319" "4273291" "4319737" "4805552" "4872947" "5000113" "5002928" "5150734" "5362526" "5522934" "5547714" "5564907" "5620523" "5678595" "5743457" "5772771" "5792272" "5853484" "5885358" "6056994" "6132552" "6228563" "6294026" "6333268" "6453992" "6677250").PN. OR ("6849133").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/03/24 22:14 |
| S16 | 18 | ("4627989" "4980204" "5143896" "5269847" "5310410" "5496408" "5500256" "5540783" "5588995" "5608526" "5628829" "5665214" "5683517").PN. OR ("5853484").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/03/24 22:39 |

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| S17 | 4 | ((("5272797") or ("6561207"))).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 16:04 |
| S18 | 5471 | ((("118/715) or (156/345.33,345.34)).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 16:30 |
| S19 | 175 | S18 and ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate)) same valve) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 17:04 |
| S20 | 358 | ("118"/\$.ccls.) and ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate)) same valve) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 19:32 |
| S21 | 1412 | ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate)) with valve) same control\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 16:30 |
| S22 | 213 | S21 and (wafer or substrate or (object adj2 treated)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 16:30 |
| S23 | 64 | (S19 or S20 or S22) and @pd>="20050324" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 16:41 |
| S24 | 0 | (S23) and @pd<="20020829" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 16:42 |

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| S25 | 15 | (S23) and (@rlad<="20020829" or @ad<="20020829") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 18:26 |
| S26 | 10 | ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate)) same valve same piezoelectric) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 17:57 |
| S27 | 149 | ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate)) and valve and piezoelectric) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 17:57 |
| S28 | 137 | (S27) and (@rlad<="20020829" or @ad<="20020829") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 19:27 |
| S29 | 328 | (c23c016\$ or h01i021\$) and (valve or actuator) and piezoelectric | EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 19:40 |
| S30 | 273 | (S29) and (@rlad<="20020829" or @ad<="20020829") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 19:50 |
| S31 | 0 | S29 and ((showerhead or (shower head) or ((diffus\$4 or dispens\$4 or dispers\$4) plate))) | EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 19:33 |
| S32 | 31 | (c23c016\$ or h01i021\$) and (valve) and piezoelectric | EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 19:40 |
| S33 | 246 | (S29) and (@rlad<="20020829" or @ad<="20020829") not S32 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/10/28 19:50 |